NORTHWEST·TERRITORIES
SCIENTIFIC·RESEARCH · 1988

SCIENCE·INSTITUTE
OF·THE·NORTHWEST·TERRITORIES

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Introduction

Was the Arctic once a lush tropical environment inhabited by dinosaurs?

Who were the people who lived on Ellesmere Island in the High Arctic thousands of years ago?

How prepared are the communities in the Eastern Arctic for the economic development that would follow the establishment of Nunavut?

What sort of a fish is an Arctic Cisco?

Should northerners be worried about contaminants in their country food?

Can computers be used to predict the way a forest fire will spread?

These are just a few of the questions scientists in the N.W.T. have been trying to answer. This booklet contains summaries of more than 170 research projects carried out between January 1 and December 31, 1988. The disciplines range from geology and marine biology to linguistics and health science, with lots of variety in between. And while the bulk of the work was done by researchers from universities in southern Canada, increasingly, northern companies, government departments, and individuals are designing and carrying out projects of their own.

Of the 173 listings in this directory, more than 150 represent projects licenced by the Science Institute of the N.W.T. All researchers who carry out investigations in the territories require a Scientific Research Licence. The only exceptions are archaeology, which is administered by the Prince of Wales Northern Heritage Centre in Yellowknife, and studies of land animals, which are licenced through the Wildlife Management Division of the Department of Renewable Resources, also in Yellowknife.

The Scientific Research Licences were established for a number of reasons. Generally, it was felt that northern residents should be informed about and invited to participate in research that occurs in and around their communities. To this end, scientists are required to discuss their proposed research with local community representatives before they begin work. They must also submit reports on their research results when they are finished and are encouraged to give public presentations where appropriate.

In addition, the licencing information is contributed to the Arctic Science and Technology Information System, a computerized database maintained by the Arctic Institute of North America, and, in a non-technical form, is released to media and community organizations.

For the first time, we have included archaeological field work in this published list. While these projects are regulated by the Prince of Wales Northern Heritage Centre in Yellowknife, we have added them here in an attempt to reflect more completely the variety of research being carried out in the N.W.T. In the future we hope to be able to add information about wildlife-related research which is licenced through the Department of Renewable Resources.

New horizons in Social Science

While social scientists still are not coming north in the numbers that physical scientists are, it was encouraging over the past year to see researchers tackling new subjects in the social sciences. For example, northern researchers examined the changing roles of women in the N.W.T., the pressures facing nurses in remote posts, and the development of regional governments.

Another area which is receiving increased attention is climate change. Much work done over the last several years has been aimed at improving our knowledge of past climates as a means of better understanding the full significance of global warming and ozone depletion. It seems fairly certain that the polar regions will feel the effects of global warming more strongly than southern areas.

In the life sciences, a number of researchers have been assessing the problem of arctic contaminants -- pollutants transported long distances in the atmosphere and deposited in the North where they are then taken up by plants and organisms. They have been found in caribou, marine mammals and fish across the N.W.T.

More and more, expeditions are adding to our knowledge of the arctic regions by collecting data as they travel to and from the north pole and other remote locations. Members of the joint Soviet-Canadian Trans-Polar Skitrek took measurements of the earth's magnetic field in order to test the theory of a Soviet scientist who believes there may be a second magnetic north pole. They also conducted medical tests to assess the effects of prolonged hard work under extreme conditions. Another group sampled the air and snow for atmospheric pollutants on their way to the pole and back.

Are you listed. . .?

One of the goals of the licencing system has been to improve communication amongst researchers working in the N.W.T. Often, individuals working on the same topic in different parts of the territories have been unaware of each other. We believe that scientists will benefit from being familiar with each others' work, and that this will be critical to developing a co-ordinated approach to northern research in Canada.

So, again, we urge all scientists working in the N.W.T. who are not represented in this listing to contact us so that their work can be acknowledged in future listings.

For more information . . .

If you would like to know more about any of the research listed here, please contact the Science Institute or, better yet, write to the researcher whose work interests you. We have included a list of all the research reports received to date that relate to the projects mentioned in this booklet. Where possible, we will be happy to supply copies of this material on request, but remind you that the researchers themselves are the best source of information.

Michael Sharpe or Laurie Nowakowski
Science Institute of the N.W.T.
Box 1617
Yellowknife, N.W.T.
X1A 2P2

Who can benefit from using this listing?

Journalists will find it an excellent source of ideas for interesting and important stories.

Teachers can use it as a catalogue of resource people . Most researchers are happy to explain their work to students, either in writing or, when possible, in the classroom.

Bureaucrats and administrators may find that information from research is useful in formulating policies or improving procedures, as well as adding significantly to our knowledge of the people and resources of the territories.

Decision makers (local and regional counsellors, members of educational authorities, MLA's and others) may find that research projects provide them with new insights into difficult issues.

Northern researchers can use the listings to keep up to date on their colleagues' work.

Everyone can enjoy the variety of subjects being studied and the interesting ideas that are being explored.

Physical Science

Location Axel Heiberg Island

Peter Adams
Department of Geography
Trent University
Box 4800
Peterborough, Ontario
K9J 7B8

Dr. Adams and his students are studying the characteristics of White Glacier and of Colour Lake, which is naturally acidic. The data they collect on the glacier may prove useful in the future as an indication of whether the climate is changing.

Physical Science

Location Coastline east of Gold Cove near Iqaluit

John T. Andrews
Department of Geological Sciences
University of Colorado
Box 250
Boulder, Colorado, USA
80309

Raoul Miller and Mark Adams, two students of Dr. Andrews, continued to investigate how sea level, climate, and vegetation have changed over the years. As in other years, took samples from the bottom of lakes near Gold Cove and along the coastline.

Social Science

Location Iqaluit

Josephine Balloi
University of Ottawa
Department of Physical Education
Apt #1 - 300 Cooper Street
Ottawa, Ontario
K2P 0G7

Ms. Balloi circulated a questionnaire among students over the age of 13 in Iqaluit schools in order to learn more about various aspects of health.

Physical Science

Location Axel Heiberg Island; Ellesmere Island

James F. Basinger
Dept. Geological Sciences
University of Saskatchewan
Saskatoon, Saskatchewan
S7N 0W0

Dr. Basinger is continuing to investigate and collect the fossilized trees that were found in the High Arctic. These can tell us a lot about how both trees and climatehave changed over millions of years.

Physical Science

Location Craig Lake area; Lake Hazen area (Ellesmere Island)

Hector Beaudet
Department of Geography
University of Alberta
Edmonton, Alberta
T6G 2H4

Dr. Beaudet and two students have been investigating where the glaciers were long ago. They extracted sediment cores to see how the climate and vegetationdiffered between then and after the glaciers melted.

Physical Science

Location northeastern Axel Heiberg Island

Jan Bednarski
Department of Geography
Trent University
Peterborough, Ontario
K9J 7B8

Dr. Bednarski collected rock samples and mapped the locations of various landforms that were created by glaciers. He also looked at raised beaches, all in an effort to understand how the landscape was formed.

Physical Science

Location Fosheim Peninsula (Ellesmere Island)

Trevor Bell
Department of Geography
University of Alberta
Edmonton, Alberta
T6G 2H4

Trevor Bell is a graduate student who has hiked Fosheim Peninsula collecting rock samples and mapping the locations of different kinds of rocks and landforms. He wants to know what the glaciers were like, how much of the current landscape was formed by glacial activity, and how much of the land was submerged by the ocean after the ice melted.

Social Science

Location Sanikiluaq and Eskimo Harbour, Belcher Islands

Margaret Bertulli
Prince of Wales Northern Heritage
Yellowknife, NWT
X1A 2L9

With the help of school principal John Jamieson, some of his students, and some local people, Margaret Bertulli visited some known sites, and examined new ones. Three of the sites are Dorset summer houses and contain fire boxes, hide scrapers, and various stone tools.

Social Science

Location Pangnirtung

Janet Billson
Department of Sociology
Rhode Island College
Providence, Rhode Island
02908

Dr. Billson interviewed women to find out how their lives and jobs are different from those of women 100 years ago. The information will become one chapter in a book on women and will also be used for part of a course on 'Women in Society' that Dr. Billson teaches at Rhode Island College.

Life Science

Location Truelove Lowland (Devon Island)

Lawrence Bliss
Department of Botany
University of Washington
Seattle, Washington USA
98195

Dr. Bliss and his research team returned to continue their investigation of how soil develops from bare rock along the ocean edge. They are interested in the role seaweed plays in the early stages of soil development.

Social Science

Location Igloolik

Michael Bravo
Harston House
38 Royston Road
Harston, Cambridge
CB2 5NR

Michael Bravo conducted several projects during his stay in Igloolik. He interviewed residents to find out whether northern methods of communication can be improved. He also compared160-year-old descriptions of the landscape with the land as it is today by retracing journeys made by an early explorer. He planned to give talks on how science and technology affect northern lifestyles.

Life Sciences

Location Iqaluit; Resolute; Cambridge Bay; Coppermine; Holman; Yellowknife

Irwin Brodo
National Museum of Natural Sciences
Botany Division
Ottawa, Ontario
K1A 0M8

Dr. Brodo and two students (Mr. Lutzoni and Mr. Proulx) have been collecting and identifying lichens from different parts of the NWT. They will also try to understand what factors are influencing their distribution.

Physical Science

Location Iqaluit; Pond Inlet; Bylot Island

Elliott Burden
Assistant Professor
Department of Earth Sciences
Memorial University of Newfoundland
St. John's, Newfoundland
A1B 3X5

Dr. Burden is studying fossilized pollen from ancient plants in order to learn what Bylot Island was like at various times in the past. As part of this work, he maps the layers, or strata, of rock in the Eclipse Trough, and notes the kinds of fossils that occur in each layer.

Social Science

Location Pangnirtung

Jonathan Burnham
560 St. Laurent O. #330
Longueuil, Quebec
J4H 3X3

Mr. Burnham interviewed people to find out about economic development in Pangnirtung.

Social Science

Location All Baffin Island communities

Brenda Canitz
Department of Behavioural Science
Division of Community Health
University of Toronto
Toronto, Ontario
M5S 1A8

Ms. Canitz distributed a questionnaire to nurses and teachers in Baffin communities as a means of identifying the sources of frustration and satisfaction in their personal and professional lives which come from living and working in isolated communities. How do people who move north adapt to the conditions? Is turnover high in these jobs?

Social Science

Location Igloolik

Jean Philippe Chartrand
#204 - 236 Duke Street
Hamilton, Ontario
L8P 1Y3

How has hunting changed in Igloolik? Have these changes affected the people's sense of cultural identity? What is the relationship between hunting and the quantity and quality of Inuktitut that is spoken in the community? These are some of the questions Mr. Chartrand hopes to answer.

Social Science

Location Dorset; Pang.; Broughton; Pond.; Igloolik; Gjoa Haven; Grise Fiord; Spence; Cambridge; Yellowknife; Iqaluit

Mary Crnkovich
Canadian Arctic Resources
4th Floor
111 Sparks Street
Ottawa, Ontario
K1P 5B5

Mary Crnkovitch's assistant, Angela Bernal, completed the interviews required to produce a book on issues facing northern women. The book will cover topics ranging from giving birth, to women in politics, to special social problems such as family violence. The book will be published by the Canadian Arctic Resources Committee (CARC) in Ottawa.

Physical Science

Location Resolute ; Eureka; Geodetic Hills (Axel Heiberg Is.); Hotweather Creek (Ellesmere Is.); Strathcona Fjord

Stephen L. Cumbaa
Assistant Director, Collections &
National Museum of Natural
National Museums of Canada
Ottawa, Ontario
K1A 0M8

As part of a study of fossil forests in the High Arctic, Dr. Cumbaa has returned to the Geodetic Hills and to Fossil Forest River to conduct surveys, make maps, and collect fossils. He hopes to learn more about the plants and animals that lived in the area 70 million years ago.

Social Science

Location Igloolik

Bernard d'Anglure
Department of Anthropology
University of Laval
Pavillon Charles-De Koninck (Bur.
Quebec City, Quebec
G1K 7P4

Dr. d'Anglure, Helene Guay, and Elisabeth Joli have been continuing their work on Inuit women who participate in the wage economy. They interviewed women and elders to find out what sorts of social changes have caused women to be employed in jobs that are considered 'non-tradional'.

Physical Science

Location Ellesmere Island; Dundas Island; Cornwallis Island

O.A. Dixon
Department of Geology
University of Ottawa
61 Louis-Pasteur
Ottawa, Ontario
K1N 6N5

Dr. Dixon and his co-workers collected fossils and rock samples on three high arctic islands in an attempt to discover what they were like in earlier times. Some of the fossils they have found are quite unlike organisms alive today. They lived in a tropical, marine environment very different from the Arctic of today. Just how different was it?

Social Science

Location Pond Inlet; Pangnirtung

Dorothy Eber
Canadian Museum Of Civilization
1455 Sherbrooke St.
Apt. # 1001
Montreal, Quebec
H3G 1L2

Dorothy Eber travelled to Pond Inlet and Pangnirtung to record the oral histories of elders who have memories of the whaling days around the turn of the century.

Physical Science

Location Barrow Strait

David Farmer
Institute of Ocean Sciences
Box 6000
9860 West Saanich Road
Sidney, B.C.
V8L 4B2

David Farmer wants to learn to interpret the various sounds ice makes when it cracks. To do this he used hydrophones to record the sounds as they were transmitted through the water. Once we understand more about theses sounds, it may be possible to predict the time of breakup, and to tell what sort of ice is in an area just by listening to it.

Physical Science/ Expedition

Location Ward Hunt Island

Ranulph Fiennes
PUNS Expedition
16 Palace Street
London, ENGLAND
SW1E 5BQ

Sir Ranulph Fiennes recorded ice stress and collected meteorological data on the ice shelf of Ward Hunt Island.

Social Science

Location Iqaluit; Rankin Inlet; Spence Bay; Fort Norman; Inuvik; FortSimpson; Fort Liard

Lynn Fogwill
Lynn Fogwill Consulting Services
208 Woolgar Ave.
Yellowknife, N.W.T.
X1A 2Y8

Lynn Fogwill visited craftswomen in communities across the N.W.T. to find out more about the role of women in the crafts industry, and to ask them how they would like to see it develop. Why, in the past, have women had so little input in the decision making processes which have shaped this small but vital segment of the economy?

Life Science

Location Clyde River and area

Bruce C. Forbes
Department of Geography
McGill University
805 Sherbrooke St. West
Montreal, Quebec
H3A 2K6

Bruce Forbes is looking at how quickly plants are invading the old settlement of Clyde River where the ground was cleared for buildings and roads.

Life Science

Location Grise Fiord; Cobourg Island; Jones Sound

Franco Giardini
Via Avigliana 72
Leumann(To), ITALY
10096

Together with five other researchers, Mr. Giardini will study aquatic molluscs (shellfish) and collect mosses and lichens for the University of Turin in Italy. The researchers will also measure changes in the pressure inside their eyes at different times of the day.

Physical Science

Location Expedition Fiord; Thompson Glacier

Robert Gilbert
Department of Geography
Queen's Univeristy
Kingston, Ontario
K7L 3N6

Dr. Gilbert is interested in finding out how the ocean floor is changed by sediments deposited from the Thompson Glacier. To do this, he and a graduate student mapped the depth of the fiord, collected water samples for later analysis in the lab, and took sediment cores from the ocean floor.

Physical Science

Location Pangnirtung Fiord

John R. Glew
Department of Geography
Queen's University
Kingston, Ontario
K7L 3N6

This is the last year that John Glew will be examining the bottom of Pangnirtung Fiord. He has been sampling and taking measurements of the seawater, seafloor sediments, the animals and plants that dwell on the seafloor, and the effects that ice have on the intertidal zone.

Social Science

Location Pelly Bay

Brian Goehring
Geography Department
#217 - 1984 West Mall
University of British Columbia
Vancouver, B.C.
V6T 1W5

Mr. Goehring is looking at how Inuit travel on the land without using compasses, maps, and other modern navigational aids. He is also compliling a map containing traditional place names in the Arvilingmuit dialect, a language which he has found to be well suited to topographic description.

Social Science

Location Yellowknife; Iqaluit; Pond Inlet;Pangnirtung

Katherine Graham
School of Public Administration
Carleton University
Ottawa, Ontario
K1S 5B6

Katherine Graham is studying the process of transferring authority from the federal government to the territorial government (devolution). She is particularly interested in finding out how this is affecting community councils and regional/tribal councils.

Life Science

Location Nuvuk Island, Hudson Bay

John M. Green
Biology Department
Memorial University
St. John's, Newfoundland
A1B 3X9

Dr. Green studied fish living on the ocean floor andobserved their effect on the feeding habits and reproductive success of black guillemots and other sea birds. He will use the samples he took to determine growth rates, food habits, and reproduction of other ocean floor dwellers.

Life Science / Physical Science

Location Borup Fiord, Ellesmere Island

K.W. Hankinson
RAF Lyneham
Chippenham
Wiltshire
England
LXX SQN

As part of the Joint Services Expedition, Flt. Lt. Hankinson and his party studied snow buntings, wading birds, arctic hares, insects, arctic char, mosses, igneous rocks, archaeological sites, weather, and food-chain dynamics.

Life Science

Location Princess Marie Bay lowland on Ellesmere Island

Gregory H.R. Henry
Department of Geography
3-32 HM Tory Building
University of Alberta
Edmonton, Alberta
T6G 2H4

Some arctic plants are found in almost every type of habitat, from wet meadows to dry gravel areas. Dr. Henry, Dr. Zilder and several students are looking at these plants to see what makes them so adaptable.

Social Science

Location Igloolik

Marianne Herzog
3870 rue St-Hubert, #14
Montreal, Quebec
H2L 4A5

Ms. Herzog is looking at the structure of caribou antlers and how they vary from one animal to another. She is investigating the uses people make of them, and has collected several sets of antlers to take back to Montreal for chemical analysis.

Physical Science

Location Ward Hunt Island (northern Ellesmere Island)

Gerald Holdsworth
Arctic Institute of North America
University of Calgary
2500 University Way
Calgary, Alberta
T2N 1N4

With his co-workers, Mr. Holdsworth has been measuring the pressure exerted by pack ice against the Ward Hunt Ice Shelf.

Life Science

Location Resolute Bay; Lancaster Sound area

Haakon Hop
Department of Zoology
CW - 312 Biological Science Building
University of Alberta
Edmonton, Alberta
T6G 2E9

Haaken Hop is interested in the feeding ecology of arctic cod -- what they eat, and what eats them. He has been observing the fish and their habitat in Lancaster Sound and has taken live fish for studies at the Marine Sciences Research Laboratory at Memorial University in St. John's Newfoundland.

Physical Science

Location Pangnirtung; Pond Inlet

James A. Hyatt
Department of Geography
Queen's University
Kingston, Ontario
K7L 3N6

Mr. Hyatt is continuing his study to see if permafrost and ground ice are affecting the new water reservoir at Pangnirtung. He is also starting a new study at Pond Inlet. The reservoir at Pond Inlet is a natural lake that has been dammed. Mr. Hyatt wants to compare the affects of permafrost and ground ice on the structure of this reservoir with the one at Pangnirtung.

Social Science

Location Iqaluit; Pond Inlet; Igloolik; Pangnirtung; Eskimo Point

Jeanette Ireland
Box 547
Iqaluit, NWT
X0A 0H0

Jeanette Ireland has been collecting oral Inuit stories from elders of eastern Arctic communities and Inuit text books. She wants to see how Inuit stories change when they are translated into English. By learning about this change, she can make recommendations to improve texts used in schools. In this way, the text books would reflect how Inuit think and feel about the world.

Physical Science

Location Iqaluit; Amadjuak Lake; Rimrock Lake; Countess of Warwick Sound

John D. Jacobs
Department of Geography
University of Windsor
Windsor, Ontario
N9B 3P4

Dr. Jacobs returned with his students to continue his investigation of climatic and environmental changesover the last 8,000 years. By studying the past and present climates of the Baffin area , Dr. Jacobs hopes to be able to predict the impact of future climatic change on the region.

Physical Science

Lorenz King
Geographisches Institute
Justus Liebig-Universitat
Neues Schloss
Giessen, WEST GERMANY
D-3600

Location Resolute Bay; Expedition Fiord , Axel Heiberg I.; Oobloyah Bay, Ellesmere I.; Ward Hunt Island

Dr. King is interested in the formation of moraines -- accumulations of earth and rock created by the movements of glaciers.

Physical Science

Roger H. King
Department of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location Truelove Lowland; Cape Skogn; Cape Newman-Smith; Cape Sparbo-Hardy (Devon Island).

This is the fourth year that Dr. King and his students have been working in the Truelove Lowland area of Devon Island. They extracted columns of soil and rock to investigate how the climate has changed over the last several thousand years.

Life Science

Olga Kukal
Department of Biological Sciences
University of Notre Dame
Notre Dame, Indiana USA
46556

Location Alexandra Fiord ,Ellesmere Island.

Ms. Kukal wants to know how it is possible for a certain kind of moth to survive in the High Arctic environment. She already knows, for example, that it is able to produce its own "antifreeze."

Social Science

Yves Labreche
Laboratoire d'archeologie
Universite du Quebec a Montreal
Casse postale 8888, succursale A
Montreal, Quebec
H3C 3P8

Location Ukiivik Island

Along with three Inuit assistants and a fellow archeologist, Dr. Labreche excavated a 500-year-old semi-subterranean house on Ukiivik Island in Hudson Strait. In it they found a wealth of animal bones, stone tools and flakes, pots and lamps. Most of the clues indicate the house was used by Thule culture people. But some tools indicate the earlier Dorset culture may have used it as well.

Physical Science

Alfred C. Lenz
Department of Geology
Faculty of Science
University of Western Ontario
London, Ontario
N6A 5B7

Location northeastern Cornwallis Island; central Bathurst Island

Dr. Lenz continued his study of rocks and fossils in the NWT. Last summer his studies took him to northeastern Cornwallis Island and central Bathurst Island.

Social Science

Odette Leroux
Curator of Inuit Art
Canadian Museum of Civilization
Canadian Ethnology Service
Ottawa, Ontario
K1A 0M8

Location Holman Island; Coppermine; Gjoa Haven; Spence Bay; Pelly Bay; Igloolik; Pond Inlet; Iqaluit; Lake Harbour

Odette Leroux travelled to various communities to meet with Inuit artists, art advisors, and co-op managers to gather information for the museum's archives, and to help discover who carved certain unidentified sculptures in the National Inuit Art Collection.

Physical Science

Antoni G. Lewkowicz
Department of Geography
Erindale Campus
University of Toronto
Mississauga, Ontario
L5L 1C6

Location Fosheim Peninsula , Ellesmere Island

Over time, hillsides slowly collapse for various reasons. Dr. Lewkowicz and his assistants are looking for a certain type of slope failure called a "skinflow. " They have been mapping the locations of skinflows in this area and hope to determine their ages by analysing soil samples they have collected.

Social Science

David Lipscomb
Apt. 7
3456 Aylmer St.
Montreal, Quebec
H2X 2B6

Location Pond Inlet

Mr. Lipscomb has been collecting information on the Inuktitut dialect spoken in north Baffin from books. He has also spoken with residents of Pond Inlet to find out how the language is now spoken. He is particularly interested in the way word structure varies from one Inuktitut dialect to another. He is also interested in the development of a standard Inuktitut spelling for all dialects.

Social Science

Keith Lowther
#128 - 1340 University Drive
Calgary, Alberta
T2N 3Y7

Location Resolute Bay; Grise Fiord

Mr. Lowther wants to understand why people from Pond Inlet and Inoucjouac were relocated to Resolute Bay and Grise Fiord in 1953. He has been talking to people in the two communities to find out what conditions were like before, during, and after the move.

Social Science

Karen McCullough
Arctic Institute of North America
11th Fl, Library Tower, University of
2500 University Drive NW
Calgary, Alberta
T2N 1N4

Location Goding Bay (Ellesmere Island); Alexandra Fiord (Skraeling Island)

Karen McCullough and colleague Peter Schledermann mapped 21 new sites on eastern Ellesmere Island which range from 100 to perhaps 4,000 years old. Most of the sites belong to the very old Arctic Small Tool tradition, but some Thule winter sites were also found.

Life Science

Location Iqaluit; Igloolik; Broughton Island; Pond Inlet

Marilyn E. McDowell
Associate Professor
Mount Saint Vincent University
166 Bedford Highway
Halifax, Nova Scotia
B3M 2J6

Dr. McDowell returned to ask people how they like the sausages and other processed meats that are being developed from seal and walrus meat. She also looked for more sources of meat and investigated the possibility of producing these products in the North.

Social Science

Location Resolute Bay area

Robert McGhee
Archaeological Survey of Canada
Canadian Museum of Civilization
Ottawa, Ontario
K1A 0M8

Dr. Robert McGhee returned to survey four large Thule winter villages in the vicinity of Resolute Bay. He assessed the potential of the 39 houses for future research and for development as tourist attractions. The walls, foundation and whalebone roof of one structure were reconstructed.

Physical Science

Location northeastern Cornwallis Island

Michael J. Melchin
Department of Geology
University of Toronto
170 College Street
Toronto, Ontario
M5S 1A1

Dr. Melchin collected rocks from different parts of northeastern Cornwallis Island to see whether they contain fossils.

Physical Science

Location Ward Hunt Island

R.M. Moore
Associate Professor
Department of Oceanography
Dalhousie University
Halifax, Nova Scotia
B3H 4J1

The Arctic Ocean is heated by the influx of relatively warm water from the North Atlantic. By measuring the concentrations of dissolved gases in ocean waters, Dr. Moore hopes to trace the flow of Atlantic water into the Arctic Basin.

Physical Science

Location Resolute Bay; Barrow Strait

Jean-Paul Nadreau
Centre for Cold Ocean Resources
Memorial University of
St. John's, Newfoundland
A1B 3X5

Dr. Nadreau took ice samples from trenches dug in the sea ice surface. He is interested in how the structure of ice changes when it is subjected to pressure.

Life Science

Location Sanikiluaq

Douglas Nakashima
5732 St. Urbain
Montreal, Quebec
H2T 2X3

Mr. Nakashima continued his research into the ecology and use of eider ducks in central Hudson Bay. He interview residents to determine how the use of eider ducks has changed over the years. He wanted to learn which ducks are best to use for making clothing, and how the clothing is made.

Social Science

Location Iqaluit; Pangnirtung; Cape Dorest; Lake Harbour

John O'Neil
Dept. of Community Health Sciences
Faculty of Medicine, University of
750 Bannatyne
Winnipeg, Manitoba
R3E 0W3

Dr. O'Neil is part of a group of researchers investigating the process of devolution and its impact upon constitutional development in the North. He conducted a study on the transfer of health services in the Baffin region. In late September, he interviewed residents, nurses, doctors, and people involved in the health transfer negotiations. He wants to know about the problems and successes of the transfer.

Life Science

Location Truelove Lowland, Devon Island

Cheryl M. Pearce
Department of Geography
Social Sciences Centre
The University of Western Ontario
London, Ontario
N6A 5C2

Dr. Pearce and her associate returned to Truelove Lowland to see whether plant communities growing on raised beaches of different ages are a result of the type of soil and water conditions they are growing in, or the amount of time they have lived there.

Physical Science

Location Thompson Glacier; Expedition Fiord , Axel Heiberg Island.

Wayne H. Pollard
Department of Geography
Memorial University of
St. John's, Newfoundland
A1B 3X9

Dr. Pollard and Mark Hinton examined the characteristics of glacier ice buried at the snout of Thompson Glacier in order to compare this ice with certain ground ice deposits located in the Mackenzie Delta and Yukon Coastal Plain areas.

Social Science

Location Dorset; Pang.; Broughton; Pond Inlet; Igloolik; Hall Beach; Pelly; Spence; Gjoa; Cambridge; Yellowknife.

Joseph Potvin
Canadian Arctic Resources
4th Floor
111 Sparks Street
Ottawa, Ontario
K1P 5B5

Mr. Potvin travelled to 11 communities across the North to discuss the format and content of his handbook on community economic development with various people in each community. He also collected information from owners of small community businesses for use as examples in his book.

Social Science

Location Igloolik

Vladimir Randa
18, Rue Gustave Courbet
Bagneux, FRANCE
F-92220

Mr. Randa returned from France to collect more information on the Inuktitut words for different animals around Igloolik. He also askedhunters and trappers how they recognize different animals and what they know about the lives of these animals.

Life Science/ Physical Science

Location Cape Arktichevsky, USSR, to Cape Columbia, Baffin Island

Andris Rode
Canada - USSR Transarctic Skitrek
50 Belmont Ave.
Ottawa, Ontario
K1S 0V1

As part of the TransPolar Skitrek, Dr. Rode and his colleagues conducted medical tests as prt of a study of the effects of prolonged hard work under extreme environmental conditions. The skiers also took magnetic readings to investigate the hypothesis that there is a second, magnetic north pole.

Social Science

Location Igloolik

Susan Rowley
National Museum of Natural Science
Smithsonian Institution
Washington, D.C.
20560

Susan Rowley returned to Igloolik to salvage a site which had been damaged when the airport road was built. The site was first occupied by one of the earliest groups of people to inhabit the Arctic.

Physical Science

Location Bylot Island

Dale Russell
Paleobiology Division
National Museum of Natural
National Musuems of Canada, Box
Ottawa, Ontario
K1P 6P4

In the summer of 1987, a bone from a duck-billed dinosaur was found on Bylot Island by Joshua Enookolook of Pond Inlet, while working as a field assistant for Dr. Elliot Burden. Dr. Russell, an authority on dinosaurs, visited the island last summer to see what he could find. His search turned up some additional bones and teeth of the sort often found in the southern U.S.

Physical Science

Location Igloolik; Jens Munk Island; Bray Island; Spicer Islands; Foxe Basin; Hall Beach; Rowley Island

Steven Sadura
Land Resource Science
University of Guelph
Guelph, Ontario
N1G 2W1

Mr. Sadura continued the study begun last summer by Dr. Martini in Foxe Basin. They are looking at the form and shape of the coastline and the bottom of the ocean in the basin. They collected samples of soil and rock from along the coastline and the ocean bottom.

Social Science

James Savelle
Dept of Anthropology
McGill University
Montreal, Quebec

Location High Arctic Islands

James Savelle and his crew examined the remains of Bowhead whales at 500 to1000 year-old Thule sites on Somerset, Devon, and Prince of Wales Islands. They are interested in finding out how important the bowhead was in the diet of the Thule people and as a source of building materials for their houses.

Physical Science

Frank Scheibli
Department of Geography
Social Sciences Centre
University of Western Ontario
London, Ontario
N6A 5C2

Location Truelove Lowlands; Phalarope Lake; Fish Lake; Upper Beschel Lake

Frank Scheibli and Alex Wolfe were part of Dr. King's research party working on the Truelove Lowlands. They sampled the waters of three of the larger lakes to record depths, temperatures, and chemical properties. They want to know how these factors affect the formation of sediments on the bottom of the lake.

Social Science

Peter Schledermann
Arctic Institute of North America
11th Fl, Library Tower, University of
2500 University Drive NW
Calgary, Alberta
T2N 1N4

Location Goding Bay (Ellesmere Island); Alexandra Fiord (Skraeling Island)

Peter Schledermann and colleague Karen McCullough mapped 21 new sites on eastern Ellesmere Island which range from 100 to perhaps 4,000 years old. Most of the sites belong to the very old Arctic Small Tool tradition, but some Thule winter sites were also found.

Physical Science

W.M. Schwerdtner
Department of Geology
University of Toronto
170 College Street
Toronto, Ontario
M5S 1A1

Location Hare Fiord region ,Ellesmere Island; Gibs region, Axel Heiberg Island.

Dr. Schwerdtner, along with several assistants, mapped the geology of these areas as part of an attempt to understand the origins of the various rock types.

Social Science

Elaine Shea
6060 University Avenue
Apt. 5
Halifax, Nova Scotia
B3H 1W5

Location Igloolik

How do young Inuit define "good health"? What does being healthy mean to them? How do we become healthy and learn how to stay that way? Ms. Shea interviewed young people in Igloolik to see how they would answer these questions.

Physical Science

Location Iqaluit area; Auyuittuq National Park

William Chris Skelly
Department of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Mr. Skelly is interested in how different arctic plants reflect light. The results of this study will help him determine how they would look on a photograph taken from a Landsat satellite. This process of "ground truthing" needs to be done before satellite images can be used in a new area for the first time.

Physical Science

Location Wolf Valley , west central Ellesmere Island

Valerie Sloan
Department of Geography
University of Alberta
Edmonton, Alberta
T6G 2H4

Valerie Sloan mapped gravel and rock deposits to determine where the glaciers were at the end of the last ice age. Since the weight of the glaciers caused the land to sink, she is also investigating how much the land has risen since the glaciers melted.

Social Science

Location Ellesmere Island

R.F. Smith
Joint Services Expedition to Borup
Badgers, Uxbridge
Itchingfield, Horsham
West Sussex, England
RH13 7NZ

In their survey of Borup Fiord, the expedition located 30 archeological sites, the largest of which has at least 35 stone house ruins and tent rings.

Physical Science

Location Truelove Lowlands; Fish Lake, Phalarope Lake; Upper Beschel Lake (Devon Island, Holman Island)

Rod Smith
Department of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Rod Smith and Louise Hollingsworth are part of Dr. King's research party working on the Truelove Lowland. They will be extracting columns of sediment from the bottoms of the larger lakes to determine what the climate was like long ago. They will also collect soil samples from the areas surrounding the lake for comparative purposes.

Physical Science

Location Truelove Lowlands; Cape Skogn; Cape Newman-Smith; Cape Sparbo-Hardy (Devon Island)

Christopher Somr
Department of Geography
Social Science Centre
University of Western Ontario
London, Ontario
N6A 5C2

Chris Somr returned as part of Dr. King's research party working on the Truelove Lowland. Heextracted columns of soil from peat bogs. Through laboratory study of these samples, he will be able to get a picture of what the climate wa s like long ago.

Social Science

Location Lake Harbour; Pangnirtung; Iqaluit

Arlene Stairs
104 Somerville
Westmount, Quebec
H3Z 1J5

Dr. Stairs is interested in the experiences of native northerners working as educators in the N.W.T. educational system. She wants to know: How did you become a teacher? Why do you like to teach? What role should Inuktitut play in school programs? Her findings will be made available to institutions and individuals involved in curriculum development and the professional training of native educators.

Social Science

Location Iqaluit

Douglas Stenton
Department of Anthropology
University of Alberta
Edmonton, Alberta
T6G 2H4

Douglas Stenton and a group of students from Arctic College recorded eight new sites in the area. Most of these were associated with the Hudson's Bay Co. post at the head of Cormack Bay and date back to 1922. They found some artifacts dating from that period.

Social Science

Location Baffin Region

Marc Stevenson
Dept of Anthropology
University of Alberta
Edmonton, Alberta
T6G 2H4

Marc Stevenson and his colleagues travelled to communities in the Baffin region to collect information about local history, culture and archeological resources. They also wanted to see which communities would be interested in establishing historical parks in their areas.

Social Science

Location Igloolik

Ruth Stirling
Garnock Villa
West Bay Road
Millport, Isle of Cumbrae
KA28 0EG

Ruth Stirling recorded how water and ice are used by Inuit throughout the year. She interviewed people and took photographs. From this, she will make a photographic exhibition that shows how differently Inuit feel about water and ice compared with people living in the south. This exhibition will be displayed in England. She also planned to teach photography and establish a community slide library.

Physical Science/ Expedition

Location Resolute; Isachsen (Ellef Ringnes Island); Prince Gustaf Adolf Sea

Rupert M.V. Summerson
Suite 3A, 3rd Floor
405 - 411 Sussex Street
Sydney, New South Wales,
2000

In preparation for their expedition to the North Pole later in the year, a team of adventurers made a trial run in the spring, pausing along the way to sample the air and snow for pollutants.

Life Science

Joseph Svoboda
Professor of Botany
Erindale Campus
University of Toronto
Mississauga, Ontario
L5L 1C6

Location Sverdrup Pass (Ellesmere Island); Truelove Lowland to ice cap (Devon Island)

Dr. Svoboda and his team are investigating the effects of grazing herds of muskoxen on the vegetation of Ellesmere Island. Last summer, on Devon Island, they looked at the associations between landforms and plant communities.

Social Science

Andy Swiderski
Box 1049
Iqaluit, NWT
X0A 0H0

Location Cape Dorest; Iqaluit; Pangnirtung

Mr. Swiderski is studying the way planning for economic development presently occurs in the Baffin region. He is interested in trying to anticipate how this might change under the Nunavut government, and in understanding the role of communities in development planning.

Social Science

Leena Evic Twerdin
4007 Lasalle Blvd
Verdun, Quebec
H4G 2A4

Location Iqaluit

Ms. Leena Evic Twerdin travelled to Iqaluit to assess the training needs of Inuit Cultural Instructors. She interviewed the instructors during their July summer course to assess the courses they have taken, the work they accomplished, and what further training they may require.

Physical Science

A.L. Washburn
Quaternary Research Centre
University of Washington
Seattle, Washington USA
98195

Location Resolute Bay; Cornwallis Island

Dr. Washburn continued his investigations into how the landscape has changed since the glaciers left 10,000 years ago. In particular, he is looking at how the effects of frost and permafrost have influenced the changes.

Physical Science

Stephen Watts
Geology Department
School of Natural Resources
Sir Sandford Fleming College, Box
Lindsay, Ontario
K9V 5E6

Location Sawtooth Range, Ellesmere Island

Dr. Watts wants to know how the weather and glaciers cause bedrock to erode in the High Arctic. As part of his study, he collected rock samples for further analysis.

Physical Science / Expedition

Richard Weber
Box 106
Chelsea, Quebec
J0X 1N0

Location Soviet Siberia; polar ice cap, northern tip Ellesmere Island

As part of the Trans Polar Skitrek, Mr. Weber took magnetic readings across the Arctic Ocean to investigate the nature of the magnetic field in that area, and to test the theory of a Soviet physicist who believes there may be a second magnetic North Pole.

Life Science

Michael Weis
Assoc. Prof., Dept. of Biological
University of Windsor
401 Sunset Avenue
Windsor, Ontario
N9B 3P4

Location Iqaluit; Tarr Inlet

Dr. Weis continued his investigations into how dwarf birch reproduce. He measured and weighed parts of dwarf birch to see if Iqaluit birch have fewer catkins than those farther south and whether all the dwarf birch that live in one area produce the same number of catkins. He hopes tofind out how climate affects sexual (catkins) and asexual (shoots from roots) reproduction in birch.

Life Science

Harold Welch
Research Scientist
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Location Resolute Bay area

Dr. Welchhas been studying the food chains in Barrow Strait. How much life can these waters support? Who eats what? How much do they eat? H is fieldwork concentrated mostly on arctic cod, clams, and a small animal known to scientists as Parathemisto.

Social Science

George. W. Wenzel
Department of Geography
805 Sherbrooke Street West
McGill University
Montreal, Quebec
H3A 2K6

Location Clyde River

Dr. Wenzel has been interviewing hunters and collecting harvest data to learn about the costs of hunting. He also wants to find answers to the questions: Is there a better term than 'subsistence economy'?; can you collect accurate harvest data if you only interview a few hunters instead of all hunters?; and, what are all the preparations and decisions hunters make before going hunting?

Social Science

Thomas C. Wilson
Department of Educational
Concordia University
Montreal, Quebec
H3G 1M8

Location Iqaluit; Igloolik; Cambridge Bay; Baker Lake

Dr. Wilson interviewed about 100 people in each of these communities to gather information for the Inuit Broadcasting Corporation about its audience. IBC wanted to know how large its audience is, what they like and don't like about IBC programming, and what they would like to see in the future.

Physical Science

Ming-ko Woo
Department of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location McMaster River Basin, near Resolute Airport

Dr. Woo wants to know what happens inside an arctic hillside when the ground melts in the spring. Where does the melt water go? Does it re-freeze? If so, where? How high up does the frost table come, and where is the water table? These are questions he investigated last summer.

Physical Science

William J. Zinsmeister
Research Scientist
Department of Geosciences
Purdue University
West Lafayette, Indiana USA
47907

Location Strathcona Sound, Baffin Island; Eureka Sound, Ellesmere I.

Dr. Zinsmeister returned to Strathcona and Eureka Sounds to continue his search for fossils of ancient sea animals in the area.

Inuvik Region

Social Science

Location Richards Island, Mackenzie Delta

Chuck Arnold
Prince of Wales Northern Heritage
Box 1320
Government of the N.W.T.
Yellowknife, NWT
X1A 2L9

Dr. Arnold worked on this archeological training and rescue project with archeologists from Toronto, Yellowknife and Calgary, and trainees from several communities in the North. The site is a rich collection of more than 20 timber winter dwellings and refuse sites. The workers uncovered an assortment of well preserved artifacts and were aided in identification by a group of elders from Tuktoyaktuk.

Social Science

Location Fort Franklin

Nicole Beaudry
6285 de St. Vallier, #7
Montreal, Quebec
H2S 2P6

Nicole Beaudry came from the Music Department, Universite de Quebec, to record information about the traditional music, dancing, and games of the Dene people so that she can compare them with similar traditions from other cultures around the world. During her stay, she made tape recordings which she will eventually deposit at the Prince of Wales Northern Heritage Centre in Yellowknife.

Life Science

Location Eskimo Point; Rankin Inlet; Inuvik; Tuktoyaktuk; Herschel Island; Firth R.; Lady Franklin Point; Bernard Harbour

Marc G. Boileau
Department of Biological Sciences
University of Windsor
Windsor, Ontario
N9B 3P4

Mr. Boileau is studying tiny, hard-bodied animals (crustacean zooplankton) that live in freshwater in the Arctic. He wants to clarify the naming of different species, improve records of their distribution, and study the routes by which the animals have dispersed since the last ice age.

Social Science

Location Yellowknife; Tuktoyaktuk; Fort McPherson; Inuvik; Aklavik; Cambridge Bay

Gail Campbell
6-331 Barrie Street
Kingston, Ontario
K7K 3S9

Ms. Campbell interviewed people on the subject of town planning in the Northwest Territories. Her research will be used to produce a Master's thesis.

Social Science

Location Ft. Smith; Resolution; Hay R. reserve; Snowdrift; Providence

Jim Cunningham
Box 568
Fort Smith, NWT
X0E 0P0

Jim Cunningham interviewed people and asked questions about the development of local government in their communities and their region. He is using this information to write a Master's thesis.

Physical Science

Location Richards Island

Larry Dyke
Department of Geological Sciences
Queen's University
Kingston, Ontario
K7L 3N6

Dr. Dyke used a water jet to help take temperature readings in a 2 km. long spit at the north end of Richards Island. He wants to know whether the acumulation of sediments has influenced the distribution of permafrost.

Social Science

Location Iqaluit; Rankin Inlet; Spence Bay; Fort Norman; Inuvik; FortSimpson; Fort Liard

Lynn Fogwill
Lynn Fogwill Consulting Services
208 Woolgar Ave.
Yellowknife, N.W.T.
X1A 2Y8

Lynn Fogwill visited craftswomen in communities across the N.W.T. to find out more about the role of women in the crafts industry, and to ask them how they would like to see it develop. Why, in the past, have women had so little input in the decision making processes which have shaped this small but vital segment of the economy?

Physical Science

Location Dodo Canyon; Carcajou Canyon; Grotto Creek; Rouge Mtn.; Bear Rock; The Mackay Range; Discovery Ridge

Derek C. Ford
Department of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Jim Hamilton, a student of Dr. Ford from McMaster University, and his field assistant hiked through these areas to record the locations of different kinds of rocks and landforms. He is interested in finding out how water from snowmelt and rain travels through the soil and rock to come out at various springs. To do this, he used a non-poisonous fluid to trace the water flow at Bear Rock.

Life Science

Location Stokes Point (Yukon); Point Atkinson; Toker Point; Mackenzie River; Tuktoyaktuk

William Griffiths
LGL Limited
9768 Second Street
Sidney, B.C.
V8L 3Y8

William Griffiths and his team are studying the Arctic Cisco, a fish which migrates from the Beaufort Sea up the Mackenzie River and its tributaries. How many fish go up each river? Are they all part of one large population, or are they separate? They netted and bought sample fish to help answer these questions.

Social Science

Location Great Bear Lake; Great Slave Lake

Robert Kelly
P.O. Box 1
Fenelon Falls, Ontario
K0M 1M0

Robert Kelly and two fellow students interviewed the owners and managers of 10-15 sport fishing lodges on Great Bear and Great Slave Lakes to see if there is a relationship between the type of ownership and the impact on local and regional economies.

Physical Science

Location Tuktoyaktuk;Paulatuk; Bathurst Inlet; Kent Peninsula

Daniel E. Kerr
Department of Geology
University of Alberta
Edmonton, Alberta
T6G 2E3

Daniel Kerr is trying to understand what happened along the Arctic Coast towards the end of the last ice age, as the glaciers were retreating. He also hopes to estimate how much the land has risen since the weight of the glaciers was removed using data collected in the field.

Life Science

Location Fort Norman

G. Peter Kershaw
Assistant Professor
Department of Geography
University of Alberta
Edmonton, Alberta
T6G 2H4

Over the past several years, Dr. Kershaw has been trying to find out the best way to make plants grow back after they have been removed to build a pipeline. He is also looking at ways to keep permafrost from melting once the insulating plant cover has been removed. He anticipates that the study will continue for several more years since changes in the vegetation occur very slowly.

Social Science

Location Fort Good Hope; Colville Lake

Harriet Kuhnlein
Dept. of Dietetics and Human
McGill University
805 Sherbrooke St. West
Montreal, Quebec
H3A 2K6

In response to an earlier study that was requested by the Dene Nation on contaminants in loche and whitefish, Health and Welfare Canada and other agencies sponsored this study to find out what amounts of contaminants people are eating. Dr. Kuhnlein surveyed people regarding their diets. Renewable Resource officers collected samples of wild foods for laboratory analysis.

Physical Science

Location White Mountains, Campbell Hills

Kenneth Leigh
Department of Geology
Biological and Geological Building
University of Western Ontario
London, Ontario
N6A 5B7

Kenneth Leigh travelled through these areas collecting rocks and fossils.

Social Science

Odette Leroux
Curator of Inuit Art
Canadian Museum of Civilization
Canadian Ethnology Service
Ottawa, Ontario
K1A 0M8

Location Holman Island; Coppermine; Gjoa Haven; Spence Bay; Pelly Bay; Igloolik; Pond Inlet; Iqaluit; Lake Harbour

Odette Leroux travelled to various communities to meet with Inuit artists, art advisors, and co-op managers to gather information for the museum's archives, and to help discover who carved certain unidentified sculptures in the National Inuit Art Collection.

Life Science

Lois Little
Lutra Associates Ltd.
Box 1866
Yellowknife, NWT
X1A 2P4

Location Arctic Red.; Ft. McPherson; Ft. Franklin; Ft. Good H.; Ft. Simpson; Wrigley; Ft. Res'n.; Lac La Martre. . .

The Dene Nation asked the Department of Indian and Northern Affairs to conduct a survey about fish caught in the Mackenzie Valley. Lutra Assoc. trained people in each community to ask questions like: How many fish areunhealthy? Where are these caught? How much fish are people eating? Is this changing because more abnormal fish are being caught? What would happen if people could not eat fish?

Life Science

Glen M. MacDonald
Department of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location Norman Wells area; Fort Simpson area

Dr. MacDonald and his co-workers are studying jack pine along the Mackenzie River between Norman Wells and Fort Simpson. Are there different kinds? How did they move into the valley after the last ice age? To help answer these questions, they have been sampling pine needles, cones, seeds, tree growth rings, and lake sediments.

Physical Science

J. Ross Mackay
Department of Geography
University of British Columbia
#217-1984 West Mall
Vancouver, B.C.
V6T 1W5

Location Tuktoyaktuk area

Dr. Mackay is studying permafrost (permanently frozen ground) -- its origins, characteristics, and the processes that occur in the permafrost zone, such as the growth and decay of pingos. He has found a pingo with exposed ice and has been able, for the first time, to describe it in some detail. The ice is made up of many layers, each representing annual growth, just like tree rings.

Physical Science

Jorg Mattner
Lehrstuhl Fur Alg. & Hist. Geol.
Geologisches Institut der TU
Leibnitzstrasse 10
3392 Clausthal, W. Germany

Location Inuvik; Summit Lake; McDougall Pass; White Mts.; Fish Creek; Bell River

Mr. Mattner studied fossils in rocks deposited about 150 million years ago (Upper Jurassic and Lower Cretaceous), and are now exposed to view in the Richardson Mountains. With these fossils Dr. Mattner has been able to show that arctic and subarctic climate conditions did occur between 110 and 150 million years ago. It was previously though it that the earth was uniformly warm during this period.

Physical Science

Location Tuktoyaktuk; Beaufort Sea

Humfrey Melling
Ocean Physics Division
Institute of Ocean Sciences
P.O. Box 6000, 9860 West Saanich
Sidney, B.C.
V8L 4B2

Mr. Melling and his co-workers are investigating the circulation of sea salts in the Beaufort Sea. They are trying to understand the role of wintertime freezing in this process.

Physical Science

Location DFO Vessel CSS John P. Tully; Tuktoyaktuk; Beaufort Sea

Humfrey Melling
Ocean Physics Division
Institute of Ocean Sciences
P.O. Box 6000, 9860 West Saanich
Sidney, B.C.
V8L 4B2

Mr. Melling is studying the movements of ice in the southern Beaufort Sea. He hopes to understand the relationships between sea-ice movements and such factors as the "landscape" of the sea floor. This research may improve our ability to predict the movements of pack-ice.

Social Science

Location Umingmak site

Hansjurgen Muller-Beck
Institut fur Urgeschichte
Universitat Tubingen
Schloss, D-4700
Tubingen 1, West Germany

Mr. Muller-Beck's team of scientists continued work at this site which shows evidence of occupation by several generations of Pre-Dorset people. In 1988 they mapped the site, collected vegetation samples, and studied its geomorphology.

Physical Science

Location June Lake; Sekwi Brook (Mackenzie Mtns.)

Guy M. Narbonne
Department of Geological Sciences
Queen's University
Kingston, Ontario
K7L 3N6

Dr. Narbonne collected fossils in the Mackenzie Mountains to learn more about the kinds of life forms that occurred in the area long ago.

Physical Science

Location Norman Wells area

Stewart G. Pickford
Canadian Forestry Service - NoFC
5320-122 Street
Edmonton, Alberta
T6H 3S5

Dr. Pickford has developed a computer model that predicts how forest fires will spread in relation to weather conditions.in southern Canada. He has been collecting weather data from the central Mackenzie Valley area to help determine whether his model will be useful in the north.

Social Science

Location Hyndman Lake, east of Inuvik

Jean-Luc Pilon
Archaeological Survey of Canada
Canadian Museum of Civilization
Ottawa, Ontario
K1A 0M8

Mr. Pilon and his crew have been excavating a large pit house built by the Kwitcha Kutchin people more than 600 years ago, on a site also used by earlier peoples more than 3,500 years ago. They have been collecting artifacts and looking for other sites in the area.

Physical Science

Location Tuktoyaktuk; Tuktoyaktuk Peninsula; Inuvik area

J.C. Ritchie
University of Toronto
Scarborough Campus
1265 Military Trail
West Hill, Ontario
M1C 1A4

Dr. Ritchie is looking at live plants and the remains of plants at the bottom of lakes (pollen) to see how the vegetation and climate have changed since the glaciers left the Inuvik and Tuktoyaktuk area about10,000 years ago.

Life Science

Location Inuvik; Campbell Lake; Shell Lake

Karl Schwalme
Department of Zoology
University of Alberta
Edmonton, Alberta
T6G 2E9

Karl Schwalme wants to know how and why the fat content of pike changes during the year. He collected between 30 and 50 great northern pike from each lake using a 2 1/2 inch gill net during the day. The fish were then taken back to the Inuvik Research Centre for fat content analysis. Since some of the fats help prevent heart disease in people, the information could be useful to nutritionists.

Life Science

Location Shingle Point (Yukon); Inuvik

Aaron Sekarak
LGL Limited
9768 Second Street
Sidney, B.C.
V8L 3Y8

Dr. Sekarak and his team collected samples of plankton and ocean water from the Canadian Beaufort Sea coastline. They are trying to understand which combination of weather and ocean conditions are best for the marine copepod Limnocalanus.

Physical Science

Location Mackenzie Delta; Hay River

David Sherstone
Scientific Services
Indian and Northern Affairs
Box 1500
Yellowknife, NWT
X1A 2R3

How fast does ice grow and decay in major river channels? Mr. Sherstone is assembling long-term records of the speed at which ice grows, the maximum thickness it attains, and the rate at which it thins before break-up.

Physical Science

Location along highways in Inuvik and Fort Smith region

Lloyd G. Simpson
Specialist
Environmental Studies
University of California
Santa Barbara, California, USA
93106

Dr. Simpson and his crew have been travelling along the NWT highway system measuring trees and shrubs in the forest. This information will be used to estimate the amount of living material in the boreal forest, and also, to help make predictions about how the earth's atmosphere will change in the future, as a result of deforestation.

Physical Science

Location Mackenzie River, from Fort Simpson to Fort Good Hope

Derald G. Smith
Department of Geography
University of Calgary
2500 University Drive NW
Calgary, Alberta
T2N 1N4

Dr. Smith and his two students are trying to find out the extent of a glacial lake that once stretched from the Redstone River to Fort Good Hope. They collected samples of ancient, buried plant material from river cutbanks to see how old these deposits are and to determine what kinds of plants grew along the western shores of the lake long ago.

Life Science

Location Sachs Harbour; Shoran Lake

Dietbert Thannheiser
Institut fur Geographie
Universitat Hamburg
Bundesstr. 55
Hamburg 13, WEST
2000

Dr. Thannheiser collected and described the types and quantities of plants growing in different habitats.

Life Science

Location Inuvik area; Tununuk Point; Tuktoyaktuk Peninsula

Ross Wein
Boreal Institute for Northern Studies
CW 401 Biological Science Building
University of Alberta
Edmonton, Alberta
T6G 2E9

In the early 1970's, several test plots were established to see what happens when the plants and soil are disturbed or removed by fire, oil spills, and vehicles. Dr. Wein and two students have re-visited these sites to document how the plants have recovered since that time.

Physical Science

Peter Worsley
Department of Geography
University Park
University of Nottingham
Nottingham, ENGLAND
NG7 2RD

Location Fish Lake, Banks Island

Dr. Worsley and his research associates came from England to continue their studies of how the rocks, landscape, and permafrost of Banks Island have changed in the last million years. They are interested in using this information to try to determine what conditions were like in England long ago.

Life Science

Marc G. Boileau
Department of Biological Sciences
University of Windsor
Windsor, Ontario
N9B 3P4

Location Eskimo Point; Rankin Inlet; Inuvik; Tuktoyaktuk; Herschel Island; Firth R.; Lady Franklin Point; Bernard Harbour

Mr. Boileau is studying tiny, hard-bodied animals (crustacean zooplankton) that live in freshwater in the Arctic. He wants to clarify the naming of different species, improve records of their distribution, and study the routes by which the animals have dispersed since the last ice age.

Life Science

Duncan Cameron
Department of Biology
York University
4700 Keele Street
North York, Ontario
M3J 1P3

Location Eskimo Point area

Dr. Cameron studied the plants in the area of Eskimo Point. This knowledge is to be used by another researcher (Mark Simpson) who is studying the behaviour of ground squirrels.

Physical Science

Patricia A. Cavell
Department of Geology
1-26 Earth Sciences Building
University of Alberta
Edmonton, Alberta
T6G 2E3

Location Kaminak Lake area

Dr. Cavell and a small team of researchers studied the igneous (heat-formed) rocks around Kaminak Lake. By determining the age and chemical composition of of the rocks, they hope to be able to tell how the rocks originated.

Social Science

Yvon Csonka
3720 Pavillon Parent
Universite Laval
Quebec City, Quebec
G1K 7P4

Location Eskimo Point

Mr. Czonka has spent the last two years gathering information in southern archives and museums on the history of the Ahiarmiut. He returned to Eskimo Point to look at the information available at the Inuit Cultural Institute and to interview elders. He will present a copy of his study to the Inuit Cultural Institute and to the Hamlet Council when it is completed.

Life Science

Stuart Davies
North/South Consultants Inc.
661 Pembina Highway
Winnipeg, Manitoba
R3M 2L5

Location Maguse River; Eskimo Point

Don MacDonell and his assistants captured arctic char on the Maguse River near Eskimo Point. The fish were measured, tagged, and released. The study was carried out in order to find out how many fish are using the river so that realistic quotas could be set for the local char fishery.

Social Science

Location Eskimo Point

Karen Dorval
162 - 9e Rue, Limoilou
Quebec City, Quebec
G1L 2N1

Karen Dorval interviewed the people of Eskimo Point to ask questions about the use and construction of Inuit tools and weapons by men and women. She will use this information to develop a display for the Eskimo Museum at Churchill.

Physical Science

Location northeast of Yathkyed Lake; south of Ferguson Lake; Kaminak Lake area

Thomas W.D. Edwards
Department of Earth Sciences
Faculty of Science
University of Waterloo
Waterloo, Ontario
N2L 3G1

Dr. Edwards collected soil samples from the bottom of a lake to determine what types of contaminants have settled from the air into the water. He also collected water samples from lakes, rivers, and the ground to learn more about how rain water and melt water move through earth underlain by permafrost.

Social Science

Location Coral Harbour

Christine Egan
1834 Attawandaron Road
London, Ontario
N6G 3N1

Ms. Egan interviewed some residents of Coral Harbour to learn about the history of employment opportunities in that community. She has a special interest in the contribution women make to the work force.

Social Science

Location Iqaluit; Rankin Inlet; Spence Bay; Fort Norman; Inuvik; FortSimpson; Fort Liard

Lynn Fogwill
Lynn Fogwill Consulting Services
208 Woolgar Ave.
Yellowknife, N.W.T.
X1A 2Y8

Lynn Fogwill visited craftswomen in communities across the N.W.T. to find out more about the role of women in the crafts industry, and to ask them how they would like to see it develop. Why, in the past, have women had so little input in the decision making processes which have shaped this small but vital segment of the economy?

Social Science

Location Chesterfield Inlet; Aberdeen Lake

T. Max Friesen
Dept of Anthropology
University of Toronto
Toronto, Ontario
M5S 1A1

Dr. Friesen conducted a survey of the area near the proposed Kiggavik Uranium mine west of Baker Lake. He found 33 archeological sites including tent rings, kayak stands, graves, inuksuit and evidence of stone tool manufacture. Interestingly, the sites were found in an area which would not ordinarily attract archeologists because of its distance from lakes and rivers.

Social Science

Location Baker Lake; Eskimo Point

Norbert Froese
Division of Community and Northern
Faculty of Medicine
University of Manitoba
Churchill, Manitoba
R0B 0E0

Dr. Froese examined records of accidents in which ATVs or snowmobiles were involved to seewhether there is a difference between the two communities. He is interested in knowing whether the bylaws for ATVs, passed in 1979 in Baker Lake, have helped to reduce injuries.

Life Science

Location Baralzon Lake area (Keewatin)

Clarke E. Garry
Department of Biology
University of Wisconsin-River Falls
Rivers Falls, Wisconsin USA
54022

As part of his attempts to reconstruct the environment of northern Manitoba thousands of years ago, Dr. Garry investigated the habitats of northern ground beetles. He wanted to know which species live on the tundra and which live in the woodlands.

Life Science

Location Eskimo Point; Whale Cove; Baker Lake; Coral Harbour

Jon Gerrard
Manitoba Institute of Cell Biology
100 Olivia St.
Winnipeg, Manitoba
R3E 0V9

Dr. Gerrard's study looked at hypertension and the role it plays during pregnancy. He was interested in finding out whether diet and other factors affected the incidence of hypertension from one community to another.

Social Science

Location Eskimo Point

Marianne Herzog
5897 Jeanne Mance
Montreal, Quebec
H2V 4K9

Ms. Herzog continued the work which she started in May in Igloolik. She is looking at the structure of caribou antlers and how they vary from one animal to another. She is also investigating the uses people make of them, and has collected several sets of antlers to take back to Montreal for chemical analysis.

Social Science

Location Chesterfield Inlet; Rankin Inlet

Colin Irwin
Department of Sociology and
Dalhousie University
Halifax, Nova Scotia
B3H 1T2

Dr. Irwin has been living in Chesterfield Inlet so that he can learn about the way Inuit live, and to find out what they want for the future. How big should the community become? What kinds of jobs would they like to have? How should hunting and fishing be supported? What do people want for their children?

Life Science

Glen M. MacDonald
Department of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location Angikuni L; Ennadai L.; Yathkyed Lake; Kazan River; Baker Lake

As part of "Operation Raleigh", a group of young people from around the world canoed the Kazan River from its head waters to Baker Lake. Along the way, they collected samples of lake sediments and peat, as well as tree ring cores, to obtain information about how the treeline has moved over the centuries.

Social Science

Robert A. Rundstrom
Geography Program
George Mason University
4400 University Way
Fairfax, Virginia, USA
22030

Location Rankin Inlet; Eskimo Point

Dr. Rundstrom talked to people in Rankin Inlet and Eskimo Point to find out how they travel on the land or across water without using compasses, maps, or other navigational equipment. He also asked for advice on how best to gather this information, and questions like: what are the Inuktitut words for certain places? How do people travel in the Keewatin?

Life Science

Rama Singh
Department of Biology
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Location Repulse Bay; Igloolik; Rankin Inlet; Chesterfield Inlet; Eskimo Point

Dr. Singh and his researcher collected specimens of fruit flies to see whether they are different from those living in southern Canada. This will help them to understand how these insects have evolved.

Social Science

Andrew Stewart
100 Queen's Park
Royal Ontario Museum
Toronto, Ontario
M5S 2C6

Location Kazan River

As part of an international expedition travelling down the Kazan River last summer, the 32 participants discovered almost 200 archaeological sites ranging from tent rings and hearths to meat caches and inuksuit. They mapped and photographed the finds, and described the artifacts they found. These included stone tools, European goods, and birch bark rolls brought from the forest.

Life Science

Location Chesterfield Inlet Area

Harold Welch
Research Scientist
Freshwater Institute
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Dr. Welch studied algae and amphipods, both important parts of the food chains supporting marine mammals. As part of this work, he studied the essential nutrients nitrogen and silica, and smpled the stomach contents of hunter-killed seals to see what they were feeding on.

Social Science

Location Iqaluit; Igloolik; Cambridge Bay; Baker Lake

Thomas C. Wilson
Department of Educational
Concordia University
Montreal, Quebec
H3G 1M8

Dr. Wilson interviewed about 100 people in each of these communities to gather information for the Inuit Broadcasting Corporation about its audience. IBC wanted to know how large its audience is, what they like and don't like about IBC programming, and what they would like to see in the future.

Life Sciences

Irwin Brodo
National Museum of Natural Sciences
Botany Division
Ottawa, Ontario
K1A 0M8

Location Iqaluit; Resolute; Cambridge Bay; Coppermine; Holman; Yellowknife

Dr. Brodo and two students (Mr. Lutzoni and Mr. Proulx) have been collecting and identifying lichens from different parts of the NWT. They will also try to understand what factors are influencing their distribution.

Social Science

Gail Campbell
6-331 Barrie Street
Kingston, Ontario
K7K 3S9

Location Yellowknife; Tuktoyaktuk; Fort McPherson; Inuvik; Aklavik; Cambridge Bay

Ms. Campbell interviewed people on the subject of town planning in the Northwest Territories. Her research will be used to produce a Master's thesis.

Social Science

Richard Condon
University of Arkansas
Fayetteville, Arkansas USA
72701

Location Holman Island

Dr. Condon, the author of a recent book on Inuit youth, has been living in Holman Island to continue his study of adolescence in the community. He is particularly interested in the effect of recent social changes on the attitudes and actions of young Inuit.

Social Science

Mary Crnkovich
Canadian Arctic Resources
4th Floor
111 Sparks Street
Ottawa, Ontario
K1P 5B5

Location Dorset; Pang.; Broughton; Pond.; Igloolik; Gjoa Haven; Grise Fiord; Spence; Cambridge; Yellowknife; Iqaluit

Mary Crnkovitch's assistant, Angela Bernal, completed the interviews required to produce a book on issues facing northern women. The book will cover topics ranging from giving birth, to women in politics, to special social problems such as family violence. The book will be published by the Canadian Arctic Resources Committee (CARC) in Ottawa.

Social Science

Lynn Fogwill
Lynn Fogwill Consulting Services
208 Woolgar Ave.
Yellowknife, N.W.T.
X1A 2Y8

Location Iqaluit; Rankin Inlet; Spence Bay; Fort Norman; Inuvik; FortSimpson; Fort Liard

Lynn Fogwill visited craftswomen in communities across the N.W.T. to find out more about the role of women in the crafts industry, and to ask them how they would like to see it develop. Why, in the past, have women had so little input in the decision making processes which have shaped this small but vital segment of the economy?

Physical Science

Don Francis
Department of Geological Sciences
McGill University
3450 University Street
Montreal, Quebec
H3A 2A7

Location Speers Lake; Muskox Lakes; northern Coppermine River

Dr. Francis is a geologist who is interested in the origin of the "gaboro-norite margin of the Muskox intrusion." He mapped and collected samples of the rock as he journeyed across the central N.W.T.

Physical Science

Daniel E. Kerr
Department of Geology
University of Alberta
Edmonton, Alberta
T6G 2E3

Location Tuktoyaktuk;Paulatuk; Bathurst Inlet; Kent Peninsula

Daniel Kerr is trying to understand what happened along the Arctic Coast towards the end of the last ice age, as the glaciers were retreating. He also hopes to estimate how much the land has risen since the weight of the glaciers was removed using data collected in the field.

Social Science

Odette Leroux
Curator of Inuit Art
Canadian Museum of Civilization
Canadian Ethnology Service
Ottawa, Ontario
K1A 0M8

Location Holman Island; Coppermine; Gjoa Haven; Spence Bay; Pelly Bay; Igloolik; Pond Inlet; Iqaluit; Lake Harbour

Odette Leroux travelled to various communities to meet with Inuit artists, art advisors, and co-op managers to gather information for the museum's archives, and to help discover who carved certain unidentified sculptures in the National Inuit Art Collection.

Social Science

Richard Leveille
1714 Champlain
Montreal, Quebec
K2L 2S7

Location Coppermine

Mr. Leveille made videotapes and tape recordings of music and musicians. He will donate one set of the tapes to the Coppermine hamlet office. He plans to compare the information he collects to that compiled by anthropologist Diamond Jenness in the early 1900's.

Social Science

David Morrison
Archaeological Survey of Canada
Canadian Museum of Civilization
Ottawa, Ontario
K1A 0M8

Location mouth of Anderson River

David Morrison excavated two house ruins and the midden, or refuse dump, at this site at the mouth of the Anderson River. In it he found a number of traditional bone, wood and antler tools, as well as trade goods like beads and sheet metal. The area was inhabited during the mid-nineteenth century and earlier by various groups of the Inuvialuit people.

Social Science

Location Coppermine

Karen Phipps
R.R. #1
Claremont, Ontario
L0H 1E0

Karen Phipps interviewed women in various community organizations. She wanted to know what their roles are in the organizations. She also asked how organizations have responded to social and economic changes that have occurred in the last 30 years. She is using this information for her studies at Trent University.

Social Science

Location Dorset; Pang.; Broughton; Pond Inlet; Igloolik; Hall Beach; Pelly; Spence; Gjoa; Cambridge; Yellowknife.

Joseph Potvin
Canadian Arctic Resources
4th Floor
111 Sparks Street
Ottawa, Ontario
K1P 5B5

Mr. Potvin travelled to 11 communities across the North to discuss the format and content of his handbook on community economic development with various people in each community. He also collected information from owners of small community businesses for use as examples in his book.

Social Science

Location High Arctic Islands

James Savelle
Dept of Anthropology
McGill University
Montreal, Quebec

James Savelle and his crew examined the remains of Bowhead whales at 500 to1000 year-old Thule sites on Somerset, Devon, and Prince of Wales Islands. They are interested in finding out how important the bowhead was in the diet of the Thule people and as a source of building materials for their houses.

Physical Science

Location Cambridge Bay; southern Victoric Island

David R. Sharpe
Geological Survey of Canada
Energy, Mines and Resources
601 Booth Street
Ottawa, Ontario
K1A 0E8

Mr. Sharpe, along with other geologists and students, is continuing to investigate the way the glaciers shaped the landscape on southern Victoria Island. They havebeen collecting samples of rock, soil, and fossils in order to determine the source and age of different landforms. This information will be used to produce a map of the glacial geology of this area.

Physical Science

Location Bernard Harbour; area between Rae River, Dolphin and Union Strait, and Cape Krustenstern

Denis A. St-Onge
Terrain Sciences Division
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario
K1A 0E8

Mr. St-Onge collected rocks to see how old they are and how they were formed.

Social Science

Location Pelly Bay area

Henry Stewart
6-2-5 Asahi-ga-oka
Hino City
Tokyo,191, Japan

Henry Stewart and his crew came all the way from Japan to study the arrangement of house ruins, caches, and inuksuit on a small island near Pelly Bay, to see whether they are in an orderly pattern or just randomly laid out.

Life Science

Location Penny Strait; Radstock Bay

Ian Stirling
Canadian Wildlife Service
5320-122 St.
Edmonton, Alberta
T6H 3S5

Dr. Stirling and his colleagues studied walrus on their wintering grounds in the central High Arctic. The researchers also recorded underwater vocalizations of marine mammals and investigated the importance of polynyas (ice-free areas) to marine mammals in the winter.

Physical Science

Location Glenelg Bay; Wynniatt Bay area,Victoria Island

Keene Swett
Department of Geology
Trowbridge Hall
University of Iowa
Iowa City, Iowa USA
52242

Dr. Swett is a university professor of geology from Iowa, USA. He is being sponsored by the National Geographic Society to look at the rocks in Glenelg Bay.

Social Science

Location Victoria Island

William E. Taylor Jr.
Archaeological Survey of Canada
Canadian Museum of Civilization
Ottawa, Ontario
K1A 0M8

Dr. Taylor returned to the Ekalluk River to continue work begun in 1963 and 1965. He is interested in the remarkable number of archaeological remains to be found in the area. He has found an elaborate system of inuksuit and shooting blinds at the west end of Ferguson Lake.

Life Science

Location Holman Island area; Coppermine; Bernard Harbour

Jim Troubridge
Department of Environmental
University of Guelph
Guelph, Ontario
N1G 2W1

Jim Troubridge has been collecting insects in parts of the Arctic studied by members of the Canadian Arctic Expedition of 1914-1916. Many of the insects collected 72 years ago have never been seen in any other part of the Arctic. This study was designed to find out why that is. What was special about the area around Bernard Harbour?

Social Science

Thomas C. Wilson
Department of Educational
Concordia University
Montreal, Quebec
H3G 1M8

Location Iqaluit; Igloolik; Cambridge Bay; Baker Lake

Dr. Wilson interviewed about 100 people in each of these communities to gather information for the Inuit Broadcasting Corporation about its audience. IBC wanted to know how large its audience is, what they like and don't like about IBC programming, and what they would like to see in the future.

Physical Science

Doug B. Yurick
Senior Planner, Marine Studies
National Parks Systems Branch,
10 Wellington Street
Ottawa, Ontario
K1A 0H3

Location Bellot Strait; Franklin Bay; Pelly Bay; Lord Mayor Bay; Richard Collison Inlet; Wynniatt Bay

Mr. Yurick has been investigating southwest Franklin Bay and the area north of Pelly Bay to determine whether either area should at some time in the future be proposed as a national marine park. He also planned to visit the Wynniatt Bay area for the same reason.

Fort Smith Region

Social Science

Location Arctic College - Thebacha Campus

Margaret Bertulli
Prince of Wales Northern Heritage
Yellowknife, NWT
X1A 2L9

Seventeen students from the Renewable Resources Technology Program took part in the systematic excavation of a log cabin and fireplace. The exercise was designed to give the students an introduction to the methods of archeological excavation and to demonstrate the need for heritage preservation and conservation in the N.W.T.

Life Sciences

Location Iqaluit; Resolute; Cambridge Bay; Coppermine; Holman; Yellowknife

Irwin Brodo
National Museum of Natural Sciences
Botany Division
Ottawa, Ontario
K1A 0M8

Dr. Brodo and two students (Mr. Lutzoni and Mr. Proulx) have been collecting and identifying lichens from different parts of the NWT. They will also try to understand what factors are influencing their distribution.

Social Science

Location Yellowknife; Tuktoyaktuk; Fort McPherson; Inuvik; Aklavik; Cambridge Bay

Gail Campbell
6-331 Barrie Street
Kingston, Ontario
K7K 3S9

Ms. Campbell interviewed people on the subject of town planning in the Northwest Territories. Her research will be used to produce a Master's thesis.

Physical Science

Location Aylmer Lake; McKay Lake

Petr Cerny
Department of Geological Sciences
University of Manitoba
Winnipeg, Manitoba
R3T 2N2

Mr. Tomascak is a student of Dr. Cerny. He mapped and collected samples of granite to determine if they contain rare minerals such as lithium, beryllium, and tin.

Social Science

Location Yellowknife

Peter Clancy
Department of Political Science
St. Francis Xavier University
Antigonish, Nova Scotia
B2G 1C0

Dr. Clancy is part of a group of researchers investigating the process of devolution and its impact upon constitutional development in the North. His case study involves wildlife and fisheries management in the NWT. He interviewed various members of management agencies and those involved in aboriginal claims to see how wildlife management may change in the future.

Social Science

Mary Crnkovich
Canadian Arctic Resources
4th Floor
111 Sparks Street
Ottawa, Ontario
K1P 5B5

Location Dorset; Pang.; Broughton; Pond.; Igloolik; Gjoa Haven; Grise Fiord; Spence; Cambridge; Yellowknife; Iqaluit

Mary Crnkovitch's assistant, Angela Bernal, completed the interviews required to produce a book on issues facing northern women. The book will cover topics ranging from giving birth, to women in politics, to special social problems such as family violence. The book will be published by the Canadian Arctic Resources Committee (CARC) in Ottawa.

Social Science

Jim Cunningham
Box 568
Fort Smith, NWT
X0E 0P0

Location Ft. Smith; Resolution; Hay R. reserve; Snowdrift; Providence

Jim Cunningham interviewed people and asked questions about the development of local government in their communities and their region. He is using this information to write a Master's thesis.

Social Science

Noel E. Currie
3 - 533 McLeod Street
Ottawa, Ontario
K1R 5B3

Location Yellowknife

Ms. Currie has been searching the CBC archives in Yellowknife and interviewing CBC staff for information on Andrew Cowan and his impact on the development of native-language broadcasting.

Social Science

Gurston Dacks
Department of Political Science
University of Alberta
Edmonton, Alberta
T6G 2H4

Location Yellowknife

Dr. Dacks is part of a group of researchers investigating the process of devolution and its impacton constitutional development in the North. He examined a number of questions relating to devolution through two case studies -- the Framework Agreement on Devolution and the Northern Accord. In each, he is looking at the parties involved, their interests, and the elements that will make up the final agreements.

Social Science

Alan G. Downe
Correction Pyschologist
Alcohol, Drug & Co. Mental Health
Department of Social Services,
Yellowknife, NWT
X1A 2L9

Location Yellowknife Correctional Centre

Mr. Downe compared interviews with 40 sentenced male offenders to those with 40 adult men who were placed temporarily (remanded) in a correctional centre while the court made a decision about their case. He wants to be able to advise the courts whether remanded inmates suffer more emotional stress than those who are sentenced straight away.

Social Science

Location Fort Resolution

Linda C. Driedger
Box 3113
Athabasca, Alberta
T0G 0B0

Linda Driedger interviewed residents to see how kinship (family relations) and the social organization of the community are interwoven.

Physical Science

Location Yellowknife

Hendrik Falck
Department of Earth Sciences
Carleton University
Ottawa, Ontario
K1S 5B6

Mr. Falck hasbeen investigating the gold-bearing rock formations around Yellowknife.

Social Science

Location Iqaluit; Rankin Inlet; Spence Bay; Fort Norman; Inuvik; FortSimpson; Fort Liard

Lynn Fogwill
Lynn Fogwill Consulting Services
208 Woolgar Ave.
Yellowknife, N.W.T.
X1A 2Y8

Lynn Fogwill visited craftswomen in communities across the N.W.T. to find out more about the role of women in the crafts industry, and to ask them how they would like to see it develop. Why, in the past, have women had so little input in the decision making processes which have shaped this small but vital segment of the economy?

Social Science

Location Yellowknife

Sharon Freitag
Department of Health
Government of the NWT
Yellowknife, NWT
X1A 2L9

Ms. Freitag is completing a study begun in 1987 aimed at finding out how and why the types of cancer that Inuit develop have changed since 1950. She hopes the study will lead to the establishment of a cancer registry, to record the types of cancer occurring in the North.

Social Science

Location Yellowknife; Iqaluit; Pond Inlet;Pangnirtung

Katherine Graham
School of Public Administration
Carleton University
Ottawa, Ontario
K1S 5B6

Katherine Graham is studying the process of transferring authority from the federal government to the territorial government (devolution). She is particularly interested in finding out how this is affecting community councils and regional/tribal councils.

Social Science

Location Indin Lake

Andrew Hammond
Yundee-Yundah Heritage Consulting
155 Bromley Court
Yellowknife, NWT
X1A 2Y1

Mr. Hammond was hired to ensure that no archeological sites would be damaged by a proposed airstrip at Neptune Resources Colomac property. No prehistoric sites were found, but equipment left from exploration activities back in the 1940s was found in the area.

Social Science

Location Great Bear Lake; Great Slave Lake

Robert Kelly
P.O. Box 1
Fenelon Falls, Ontario
K0M 1M0

Robert Kelly and two fellow students interviewed the owners and managers of 10-15 sport fishing lodges on Great Bear and Great Slave Lakes to see if there is a relationship between the type of ownership and the impact on local and regional economies.

Life Science

Location Arctic Red.; Ft. McPherson; Ft. Franklin; Ft. Good H.; Ft. Simpson; Wrigley; Ft. Res'n.; Lac La Martre. . .

Lois Little
Lutra Associates Ltd.
Box 1866
Yellowknife, NWT
X1A 2P4

The Dene Nation asked the Department of Indian and Northern Affairs to conduct a survey about fish caught in the Mackenzie Valley. Lutra Assoc. trained people in each community to ask questions like: How many fish areunhealthy? Where are these caught? How much fish are people eating? Is this changing because more abnormal fish are being caught? What would happen if people could not eat fish?

Life Science

Location Norman Wells area; Fort Simpson area

Glen M. MacDonald
Department of Geography
McMaster University
1280 Main Street West
Hamilton, Ontario
L8S 4K1

Dr. MacDonald and his co-workers are studying jack pine along the Mackenzie River between Norman Wells and Fort Simpson. Are there different kinds? How did they move into the valley after the last ice age? To help answer these questions, they have been sampling pine needles, cones, seeds, tree growth rings, and lake sediments.

Social Science

Location Fort Smith; Yellowknife

Lynne MacLean
Psychology Department
University of Saskatchewan
Saskatoon, Saskatchewan
S7N 0W0

Lynne MacLean interviewed women and mental health workers about depression and how to overcome it. All interviews were confidential. She wants to know whether the experience and effects of depression are different between Chipewyan and white women. She also asked mental health workers about the sort of difficulties they experience when dealing with depression in native (versus non-native) women.

Social Science

Location Fort Smith region

Michael McCarrey
Schoo! of Psychology
University of Ottawa
651 Cumberland
Ottawa, Ontario
K1N 6N5

Dr. McCarrey and Dorin Whelly are interested in people's attitudes towards their work. What do people expect from their jobs? What conditions are necessary to create these satisfactions? Do native and non-native employees have different needs and expectations?

Social Science

Location Fort Simpson

Debra Morrison
c/o Hay River Women's Centre
Box 276
Hay River, NWT
X0E 0R0

Debra Morrison interviewed Dene women to find out which social factors create a feeling of isolation. She asked questions about their education, marriages, family, religious involvement and work. The information will help her identify future research.

Social Science

Location Dorset; Pang.; Broughton; Pond Inlet; Igloolik; Hall Beach; Pelly; Spence; Gjoa; Cambridge; Yellowknife.

Joseph Potvin
Canadian Arctic Resources
4th Floor
111 Sparks Street
Ottawa, Ontario
K1P 5B5

Mr. Potvin travelled to 11 communities across the North to discuss the format and content of his handbook on community economic development with various people in each community. He also collected information from owners of small community businesses for use as examples in his book.

Physical Science

Location Yellowknife

James W.J.H. Ramsay
62 Southern Drive
Ottawa, Ontario
K1S 0P6

Mr. Ramsay began discussions with thedepartment of Renewable Resources and the department of Economic Development and Tourism on the subject of forest management plans. The purpose is to develop management plans for northern communities so that they can become involved in decisions affecting the surrounding forest resources.

Social Science

Location Thor Lake Mine site

Dale Russell
Saskatchewan Research Council
15 Innovation Drive
Saskatoon, Saskatchewan
S7N 2X8

Mr. Russell conducted a survey of the Thor Lake mine site (Highwood Resources Ltd.) 100 kilometres southeast of Yellowknife. He found two prehistoric sites which contained white quartz stone tools and a bone flesher. He also mapped the Strathcona site, an abandoned diamond-drilling camp on the north shore of the lake.

Physical Science

Location Mackenzie Delta; Hay River

David Sherstone
Scientific Services
Indian and Northern Affairs
Box 1500
Yellowknife, NWT
X1A 2R3

How fast does ice grow and decay in major river channels? Mr. Sherstone is assembling long-term records of the speed at which ice grows, the maximum thickness it attains, and the rate at which it thins before break-up.

Physical Science

Location along highways in Inuvik and Fort Smith region

Lloyd G. Simpson
Specialist
Environmental Studies
University of California
Santa Barbara, California, USA
93106

Dr. Simpson and his crew have been travelling along the NWT highway system measuring trees and shrubs in the forest. This information will be used to estimate the amount of living material in the boreal forest, and also, to help make predictions about how the earth's atmosphere will change in the future, as a result of deforestation.

Physical Science

Location Fort Simpson area

Diane Spivey
1276 Evans Blvd
Ottawa, Ontario
K1H 7T9

Diane Spivey is interested in knowing why there is less permafrost now in peatbogs. She mapped areas that thawed and collapsed. She also surveyed and sampled vegetation to see if it has been disturbed so that it no longer insulates the permafrost as well. She will use this information for her master's thesis.

Social Science

Location Fort Resolution; Snowdrift; Rae-Edzo

Isodore Tourangeau
Dept. of Municipal and Community
Govt. of the NWT
Fort Smith, NWT
X0E 0P0

Mr. Tourangeau interviewed residents about their views on community development. Interviews consisted of 50 questions regarding community needs, and what is being done about them. This information will be returned to the community councils for their use. The Department of Municipal and Community Affairs will use the work to improve their programs that relate to community development.

Life Science

Location Along road system in Fort Smith ,Yellowknife, Fort Simpson areas

Robert A. Wright
Department of Forest Science
University of Alberta
Edmonton, Alberta
T6G 2H1

Robert Wright wants to know if jack pine seedlings from the subarctic can survive longer without rain than seedlings from other areas.

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All researchers who obtain Scientific Research Licences are expected to send copies of their final research reports to the Science Institute. These are available on request to anyone who is interested. A partial collection of reports received over the last ten years is on file at the Institute.

The listing that follows contains only reports that relate to Scientific Research Licences issued in 1988. Because of the long delays that commonly occur in scientific publishing, many researchers had not submitted reports when this listing was compiled. Please feel free to contact the researchers or the Science Institute for more information about projects carried out in 1988 or in previous years.

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